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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA**

Agrarian and Technological Institute

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Clinical diagnosis

course title

Recommended by the Didactic Council for the Education Field of:

36.03.01 Veterinary and sanitary examination

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Veterinary and sanitary examination

higher education programme profile/specialisation title

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "**Clinical diagnosis**" is to develop professional knowledge and skills for using in veterinary medicine methods designed for the diagnosis and differential diagnosis of diseases of various etiologies in animals. This is necessary for the veterinarian to correctly apply the methods and correctly interpret the results obtained, to provide scientific justification for their actions and decisions taken for the appointment and treatment of animals

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Clinical diagnosis**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competencies formed by students during the development of the discipline (results of the development of the discipline)

Code	Competence	Indicators of competence accomplishment (within the discipline)
GPC-1	It is able to determine the biological status, normative general clinical indicators of organs and systems of the animal body, as well as the quality of raw materials and products of animal and plant origin	GPC-1.3 Is able to determine the main indicators of the activity of individual body systems and draw conclusions about the presence of deviations from the normative values
		GPC-1.4 Has the skills of sampling biological fluids and tissues for research.

3. COURSE IN HIGHER EDUCATION

The discipline "**Clinical diagnosis**" belongs to the part formed by the participants of educational relations of the block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline "**Clinical diagnosis**".

Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes.

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
GPC-1	It is able to determine the biological status, normative general clinical indicators of organs and systems of the animal	Клиническая диагностика	Учебная практика Ветеринарно-санитарная практика Технологическая практика

	body, as well as the quality of raw materials and products of animal and plant origin		Академическая научно-исследовательская практика с подготовкой научного квалификационного проекта Подготовка к сдаче и сдача государственного экзамена
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4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Clinical diagnosis**" is 2 credits.

*Table 4.1. Types of academic activities during the period of the HE program mastering for **full-time** study*

Types of academic activities		HOURS	Semesters				
			4	-	-	-	
Contact academic hours		36	36	-	-	-	
including							
Lectures		18	18	-	-	-	
Lab work		18	18	-	-	-	
Seminars (workshops/tutorials)		-	-	-	-	-	
Self-study		26	26	-	-	-	
Evaluation and assessment (exam/pass/fail grading)		10	10	-	-	-	
Course workload		Academic hour	72	72	-	-	-
		Credit unit	2	2	-	-	-

*Table 4.2. Types of academic activities during the period of the HE program mastering for **part-time** study*

Types of academic activities		HOURS	Semesters			
			4	-	-	-
Contact academic hours		18	18	-	-	-
including						
Lectures		-	-	-	-	-
Lab work		18	18	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		38	38	-	-	-
Evaluation and assessment (exam/pass/fail)		16	16	-	-	-

grading)						
Course workload	Academic hour	72	72	-	-	-
	Credit unit	2	2	-	-	-

Table 4.3. Types of educational work by periods of development of EP HE for CORRESPONDENCE forms of education

Types of academic activities		HOURS	Semesters			
			4	-	-	-
Contact academic hours		5	5	-	-	-
Including						
Lectures		-	-	-	-	-
Lab work		5	5	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		64	64	-	-	-
Evaluation and assessment (exam/pass/fail grading)		3	3	-	-	-
Course workload	Academic hour	72	72	-	-	-
	Credit unit	2	2	-	-	-

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. Introduction	Topic 1. Introduction to the discipline. History of the development of veterinary clinical diagnostics	LK, LR
Section 2. Biogeocenotic diagnostics	Topic 2.1. Significance and ecological characteristics of animal populations and biogeocenoses for the diagnosis of endemic diseases	LK, LR
	Topic 2.2. Diagnostic stage of medical examination	LR
Section 3. The cardiovascular system	Topic 3.2. Methods of studying the heart and blood vessels	LK, LR
Section 4. Respiratory system	Topic 4.1. Examination of the upper respiratory tract and chest. Research methods and clinical signs of respiratory damage	LK, LR

Section 5. The digestive system	Topic 5.1. Study of the digestive system of ruminants	LK, LR
	Topic 5.2. Study of the digestive system of horses, carnivores and omnivores	LR
Section 6. Urinary system	Topic 6.1. Research of the urinary system	LK, LR
	Topic 6. 2. Laboratory examination of urine	LR
Section 7. The nervous system	Topic 7.1. Research of the central nervous system	LK, LR
	Topic 7.2. Study of the peripheral and autonomic nervous systems	LR
Section 8. Fundamentals of clinical biochemistry	Topic 8.1. Diagnostics of protein and carbohydrate metabolism disorders	LK, LR
	Topic 8.2. Diagnostics of fat, water-electrolyte, vitamin-mineral metabolism disorders	LR
	Topic 8.3. Fundamentals of enzyme diagnostics	LR
Section 9. The endocrine system	Topic 9.1. Examination of the endocrine glands (ultrasound, X-ray examination, thermography, laboratory tests)	LK, LR
	Topic 9.2. Laboratory methods of examination of the endocrine glands	LR

6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

Classroom for Academic Activity Type	Equipping the classroom	Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means multimedia presentations.	-

Laboratory	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	-
For independent work of students	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS.	-

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

1. Internal diseases of animals. Prevention and therapy: textbook / G. G. Shcherbakov, A. V. Korobov, B. M. Anokhin [and others]. - 5th ed., Rev. and additional - St. Petersburg: Lan, 2022. - 736 p. - ISBN 978-5-8114-0012-2. — Text: electronic // Doe: electronic library system. - URL: <https://e.lanbook.com/book/210272>

2. Samsonova, T. S. Veterinary physiotherapy: a textbook for universities / T. S. Samsonova, T. T. Levitskaya, A. Sh. Karimova. - St. Petersburg: Lan, 2022. - 360 p. - ISBN 978-5-8114-8232-0. — Text: electronic // Doe: electronic library system. - URL: <https://e.lanbook.com/book/187550>

Additional Reading:

1. A guide to practical exercises on internal non-contagious spaces: a textbook by A. V. Yashin, G. G. Shcherbakov, N. A. Kochueva [and others]; under the general editorship of A. V. Yashin. - 2nd ed., revised. - St. Petersburg: Lan, 2022. - 172 p. - ISBN 978-5-8114-1957-9. — Text: electronic // Doe: electronic library system. - URL: <https://e.lanbook.com/book/206060>
2. Non-infectious pathology of cattle in farms with industrial technology: a textbook / A. V. Yashin, G. G. Shcherbakov, I. I. Kalyuzhny [and others]; under the general editorship of A. V. Yashin. - St. Petersburg: Lan, 2022. - 220 p. - ISBN 978-5-8114-4058-0. — Text: electronic // Doe: electronic library system. - URL: <https://e.lanbook.com/book/207065>
3. Complex therapy and therapeutic technique in veterinary medicine: textbook / A. A. Stekolnikov, G. G. Shcherbakov, A. V. Korobov [and others]; edited by A. A. Stekolnikov. - St. Petersburg: Lan, 2022. - 288 p. - ISBN 978-5-8114-0676-0. — Text: electronic // Doe: electronic library system. - URL: <https://e.lanbook.com/book/210158> *Resources of the Internet information and telecommunication network:*

1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:

- Electronic library system of RUDN - ELS RUDN <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library online" <http://www.biblioclub.ru>
- ELS Yurayt <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru

- ELS "Lan" <http://eZlanbook.com/>
- ELS "Trinity Bridge" <http://www.trmost.com/>
- 2. Databases and search engines:
 - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
 - search engine Yandex <https://www.yandex.ru/>
 - search engine Google <https://www.google.ru/>
 - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work of students during the development of the discipline/ module*:

1. A course of lectures on the discipline "**Clinical diagnosis**".
2. Laboratory workshop on the discipline "**Clinical diagnosis**".

* - All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the **Telecommunication educational and Information System!**

8. MID-TERM ASSESSMENT

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "**Clinical diagnosis**" are presented in the Appendix to this Work Program of the discipline.

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

DEVELOPER:

Associate Professor of the Department of Veterinary
Medicine

Position, Basic curriculum

Signature

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Full name.

HEAD OF THE DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

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HEAD OF THE HIGHER EDUCATION PROGRAM:

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Signature

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